

# COMPUTER HARDWARE

*Physical /tangible parts of a computer-seen, touched, felt and picked up*

- ✓ Identify the device
- ✓ Describe the device
- ✓ Give a function
- ✓ Give an advantage
- ✓ Give a disadvantage

## a) INPUT DEVICES

*Enter/feed data and instructions into a computer*

### Manual input devices

- Keyboard
- Stylus and graphics tablet
- Touch screen
- Light pen

### Pointing device

- Mouse
- Touchpad
- Trackball
- Pointing stick

### Image capturing devices

- Digital camera
- Digital video camera
- Web camera/webcam

### Gaming devices

- Joystick

### Voice and sound devices

- Microphone
- MIDI device
- Voice recognition systems

## b) PROCESSING DEVICES

*Manipulate /transform/change data into information*

- Central processing unit (CPU)

- Main memory

### Direct input devices

- Sensor and remote sensor
- Scanner
- Bar code reader
- Magnetic stripe reader
- OMR reader
- MICR reader
- OCR reader

## c) STORAGE DEVICES

*Read data from and write data onto a storage media*

### Magnetic storage devices

- Hard disk drive
- Floppy disk drive
- Magnetic tape drive
- Zip disk drive
- Jaz disk drive

### Optical storage devices

- CD-R drive
- CD-ROM drive
- CD-RW drive
- DVD-R drive
- DVD-ROM drive
- DVD-RW drive
- Blu ray drive

### Solid state storage devices

- Memory cards
- Flash disks
- Solid state hard disks

*Storage media-actual material that holds data and information*

## d) OUTPUT DEVICES

*Present/remove/bring out data and information from a computer*

### Soft copy output devices

- Monitors
- Speakers
- Data Projectors
- Terminals

### Hard copy output devices

- Facsimile machine
- Printers
- Plotters
- Multifunction devices

- Hard disk
- Floppy disk
- Magnetic tape
- Zip disk
- Jaz disk
- CD-R
- CD-ROM

- CD-RW
- DVD-R
- DVD-ROM
- DVD-RW
- Blu ray
- Memory cards
- Flash disks
- Solid state hard disks

## e) COMMUNICATION DEVICES

*Transfer data and instructions from one device/computer to another*

- Modem
- Switch
- Hub
- Router
- Network Interface Card (NIC)
- Gateway
- Multiplexer
- De-multiplexer
- Repeater
- Bridge